FIG. 1

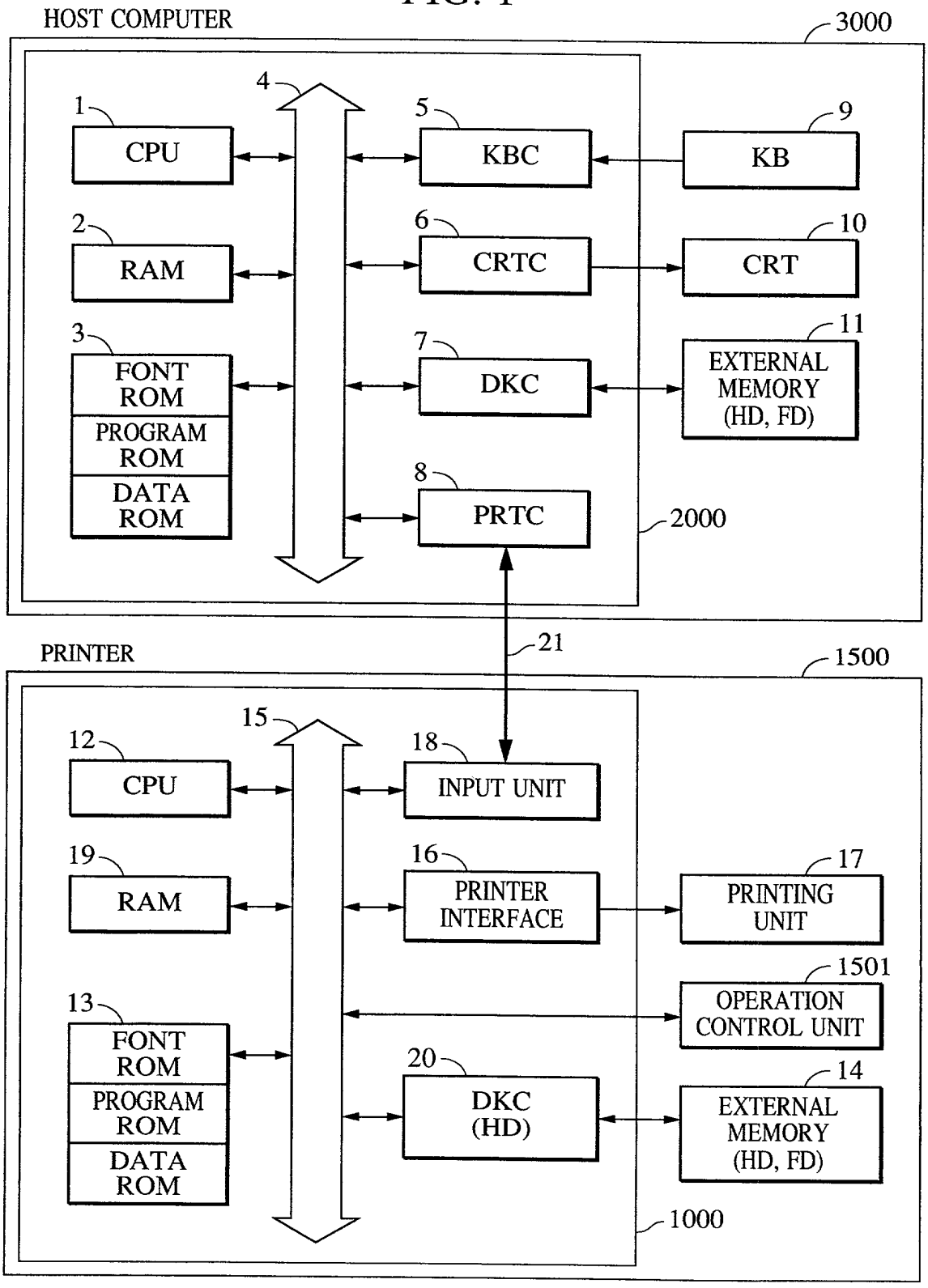

HOST COMPUTER
3000
1
CPU
2
RAM
3
FONT ROM
PROGRAM ROM
DATA ROM
4
5
KBC
6
CRTC
7
DKC
8
PRTC
9
KB
10
CRT
11
EXTERNAL MEMORY (HD, FD)
2000
21
PRINTER
1500
12
CPU
15
18
INPUT UNIT
19
RAM
16
PRINTER INTERFACE
17
PRINTING UNIT
1501
OPERATION CONTROL UNIT
13
FONT ROM
PROGRAM ROM
DATA ROM
20
DKC (HD)
14
EXTERNAL MEMORY (HD, FD)
1000

FIG. 2

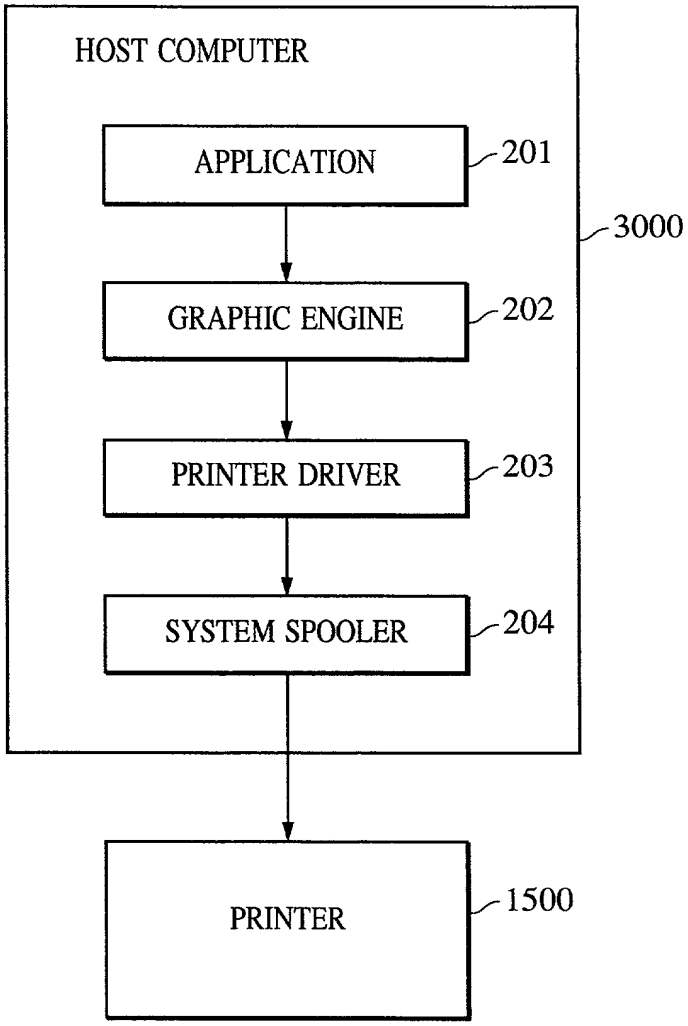

HOST COMPUTER
APPLICATION
201
3000
GRAPHIC ENGINE
202
PRINTER DRIVER
203
SYSTEM SPOOLER
204
PRINTER
1500

FIG. 3

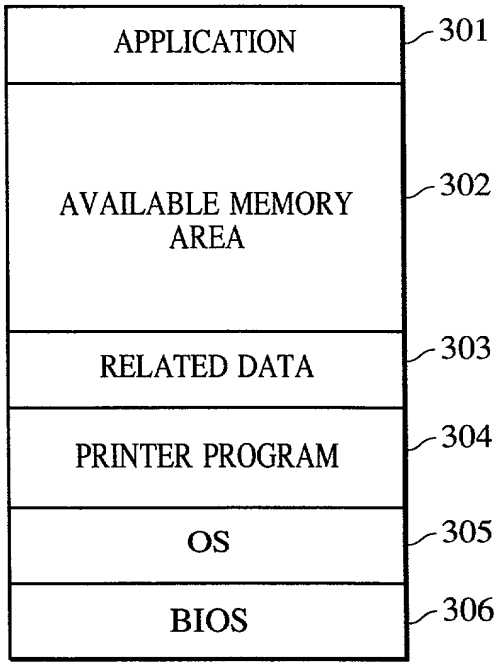

APPLICATION
301
AVAILABLE MEMORY AREA
302
RELATED DATA
303
PRINTER PROGRAM
304
OS
305
BIOS
306

FIG. 4

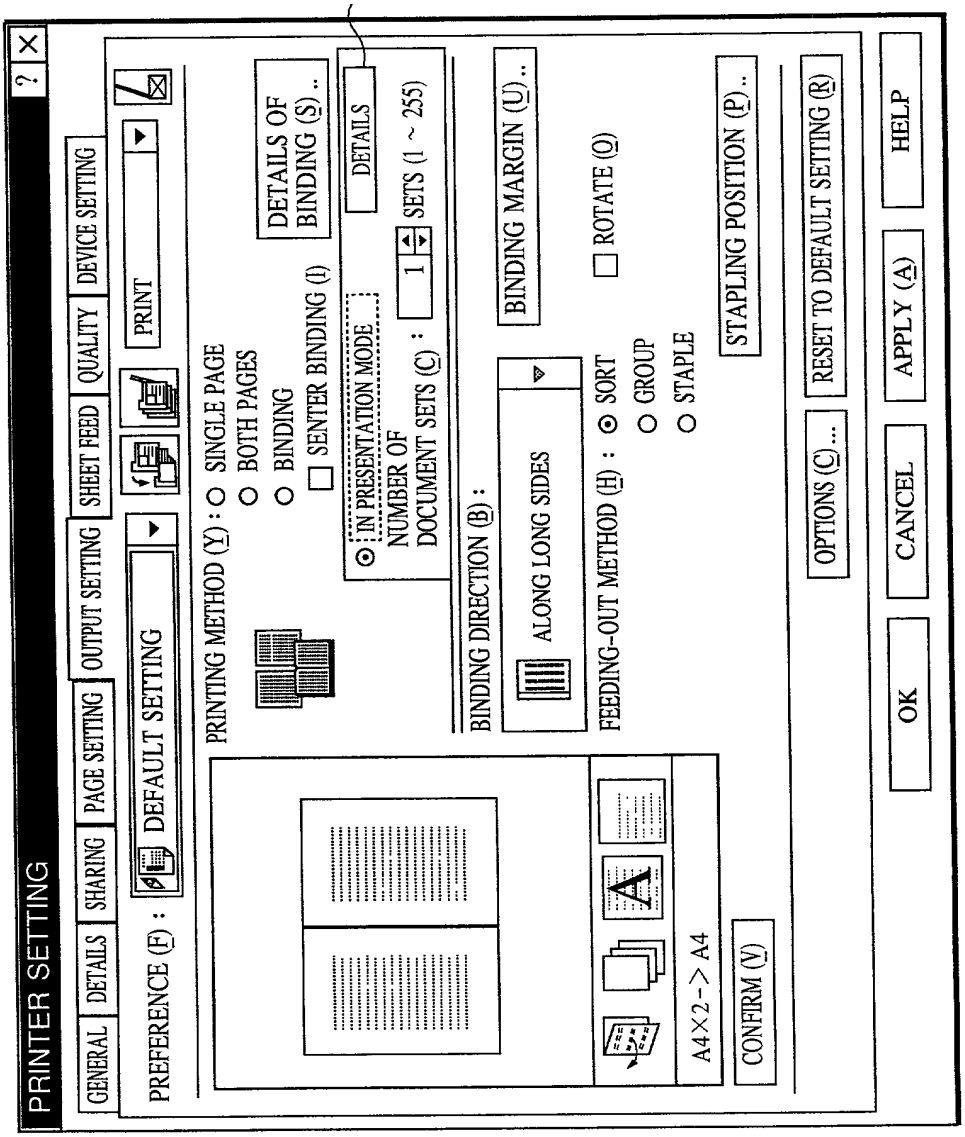

401
PRINTER SETTING
GENERAL
DETAILS
SHARING
PAGE SETTING
OUTPUT SETTING
SHEET FEED
QUALITY
DEVICE SETTING
PREFERENCE (F) :
DEFAULT SETTING
PRINT
PRINTING METHOD (Y) :
SINGLE PAGE
BOTH PAGES
BINDING
SENTER BINDING (I)
DETAILS OF BINDING (S) ..
IN PRESENTATION MODE
NUMBER OF DOCUMENT SETS (C) :
1
SETS (1 ~ 255)
DETAILS
BINDING DIRECTION (B) :
ALONG LONG SIDES
BINDING MARGIN (U) ..
FEEDING-OUT METHOD (H) :
SORT
GROUP
STAPLE
ROTATE (O)
A4×2-> A4
CONFIRM (V)
STAPLING POSITION (P) ..
OPTIONS (C) ...
RESET TO DEFAULT SETTING (R)
OK
CANCEL
APPLY (A)
HELP

FIG. 5

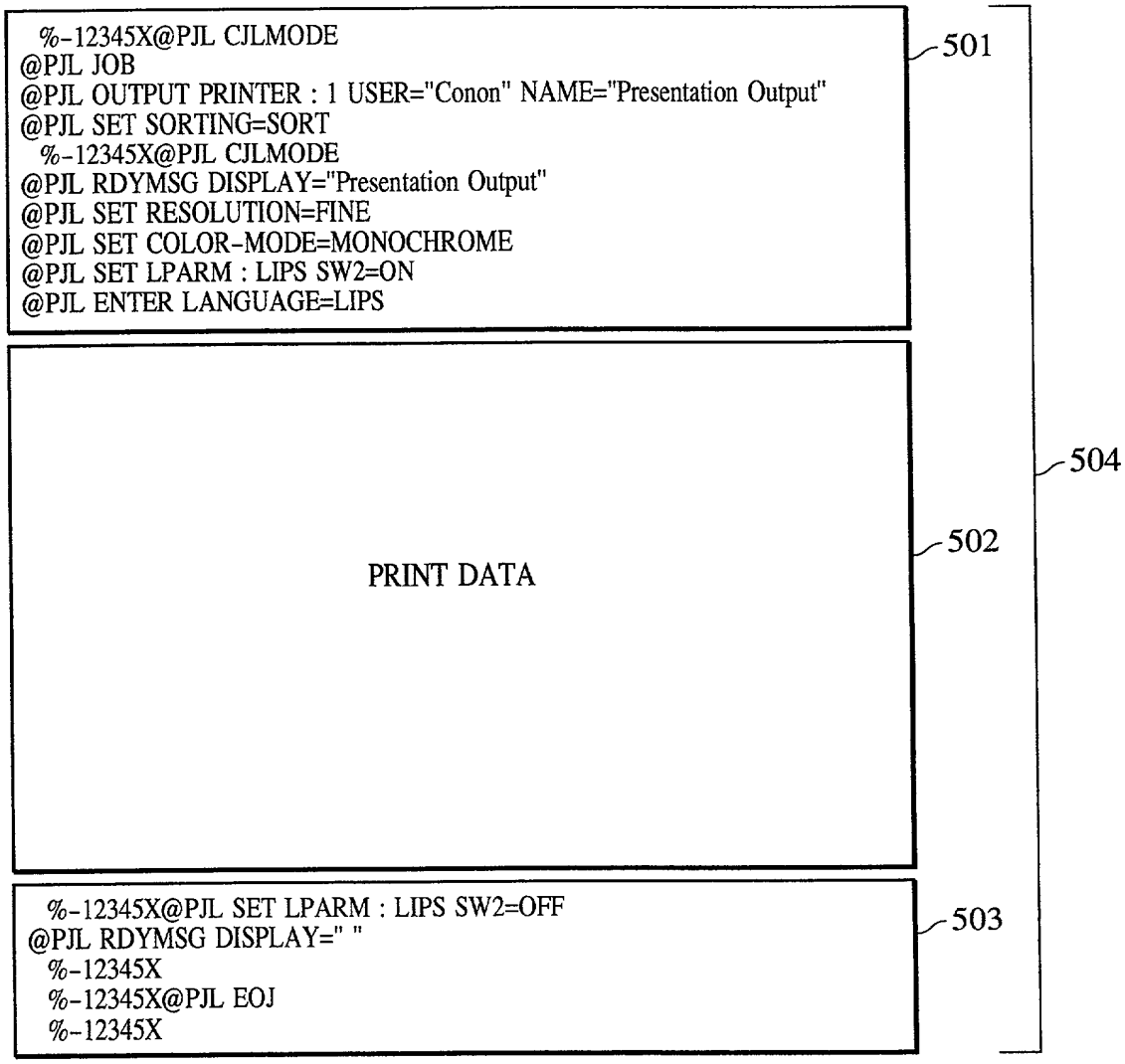

%-12345X@PJL CJLMODE
@PJL JOB
@PJL OUTPUT PRINTER : 1 USER="Conon" NAME="Presentation Output"
@PJL SET SORTING=SORT
%-12345X@PJL CJLMODE
@PJL RDYMSG DISPLAY="Presentation Output"
@PJL SET RESOLUTION=FINE
@PJL SET COLOR-MODE=MONOCHROME
@PJL SET LPARM : LIPS SW2=ON
@PJL ENTER LANGUAGE=LIPS
501
PRINT DATA
502
%-12345X@PJL SET LPARM : LIPS SW2=OFF
@PJL RDYMSG DISPLAY=" "
%-12345X
%-12345X@PJL EOJ
%-12345X
503
504

FIG. 6

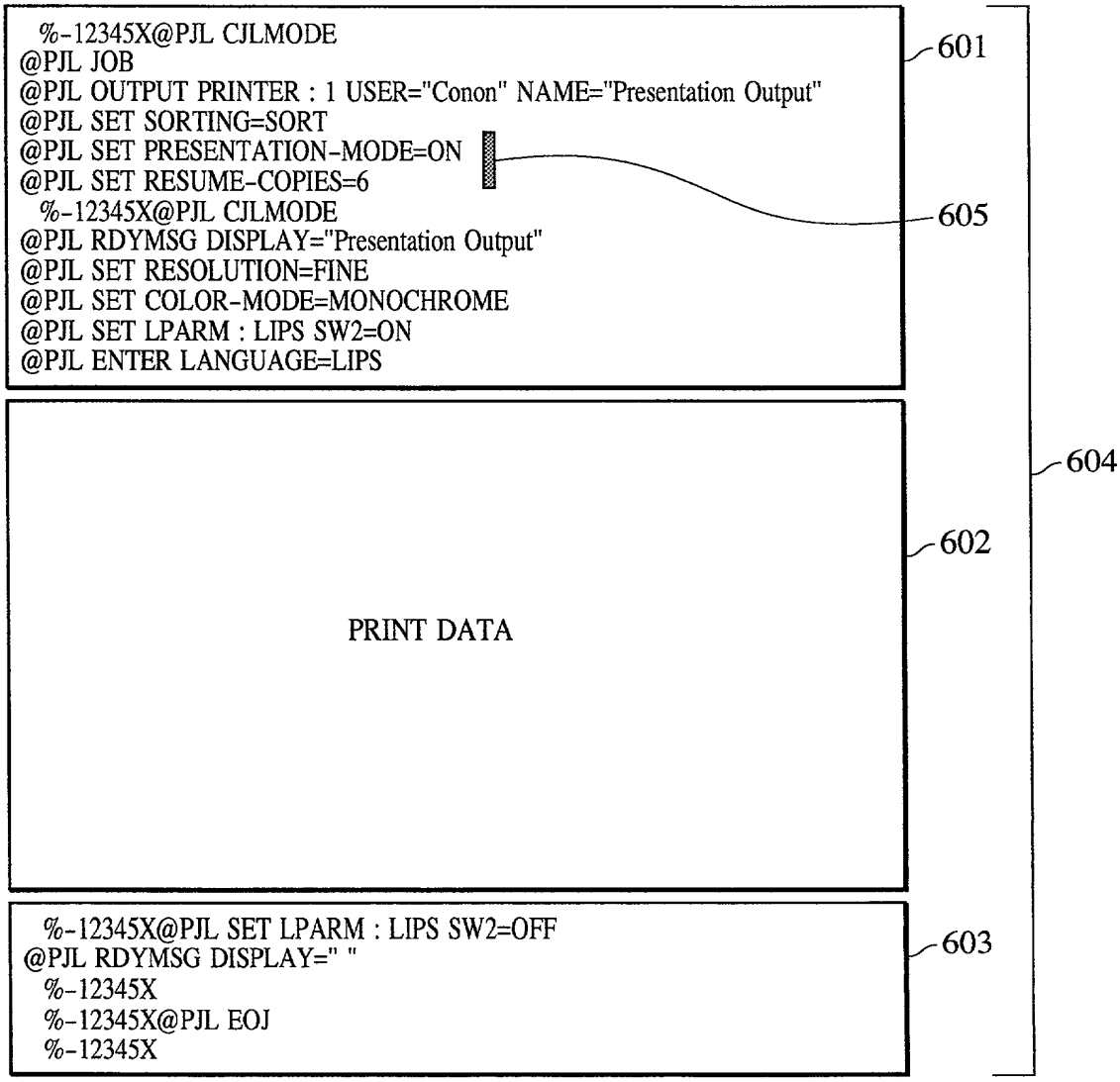

%-12345X@PJL CJLMODE
@PJL JOB
@PJL OUTPUT PRINTER : 1 USER="Conon" NAME="Presentation Output"
@PJL SET SORTING=SORT
@PJL SET PRESENTATION-MODE=ON
@PJL SET RESUME-COPIES=6
%-12345X@PJL CJLMODE
@PJL RDYMSG DISPLAY="Presentation Output"
@PJL SET RESOLUTION=FINE
@PJL SET COLOR-MODE=MONOCHROME
@PJL SET LPARM : LIPS SW2=ON
@PJL ENTER LANGUAGE=LIPS
601
605
PRINT DATA
602
%-12345X@PJL SET LPARM : LIPS SW2=OFF
@PJL RDYMSG DISPLAY=" "
%-12345X
%-12345X@PJL EOJ
%-12345X
603
604

FIG. 7

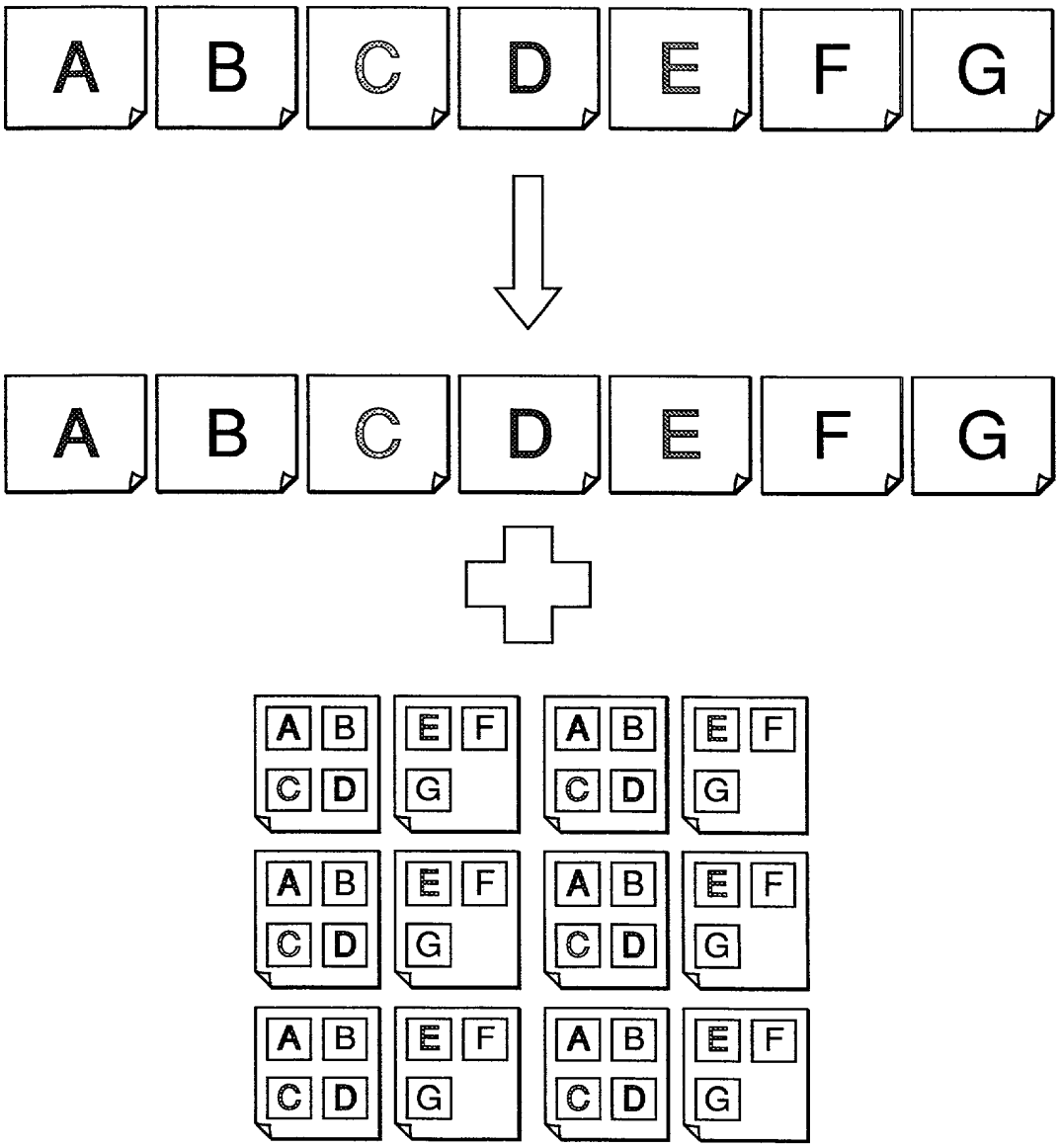

A B C D E F G
A B C D E F G
A B C D
E F G
A B C D
E F G
A B C D
E F G
A B C D
E F G
A B C D
E F G
A B C D
E F G

FIG. 8

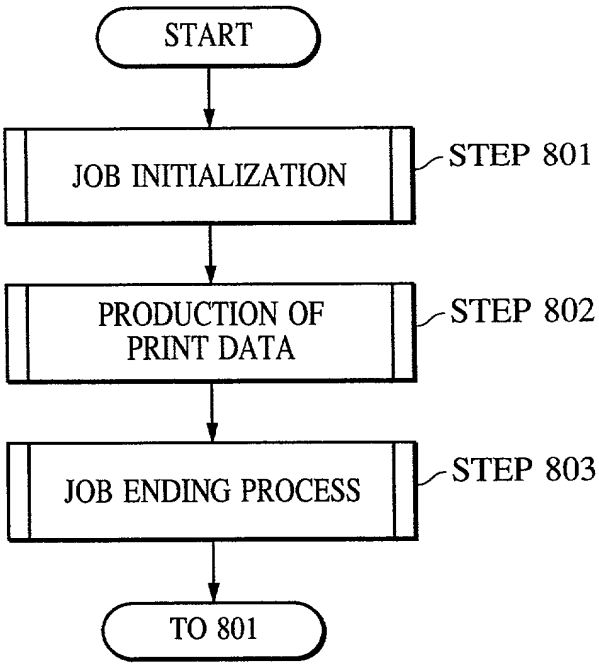

START
JOB INITIALIZATION
STEP 801
PRODUCTION OF PRINT DATA
STEP 802
JOB ENDING PROCESS
STEP 803
TO 801

FIG. 9

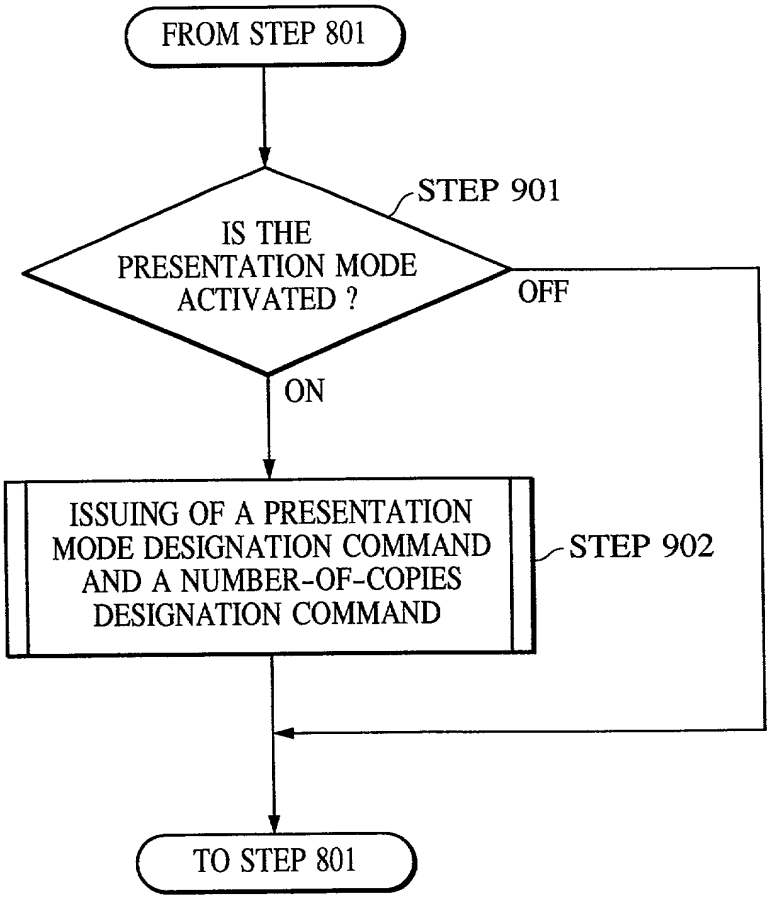

FROM STEP 801
STEP 901
IS THE PRESENTATION MODE ACTIVATED ?
OFF
ON
ISSUING OF A PRESENTATION MODE DESIGNATION COMMAND AND A NUMBER-OF-COPIES DESIGNATION COMMAND
STEP 902
TO STEP 801

FIG. 10

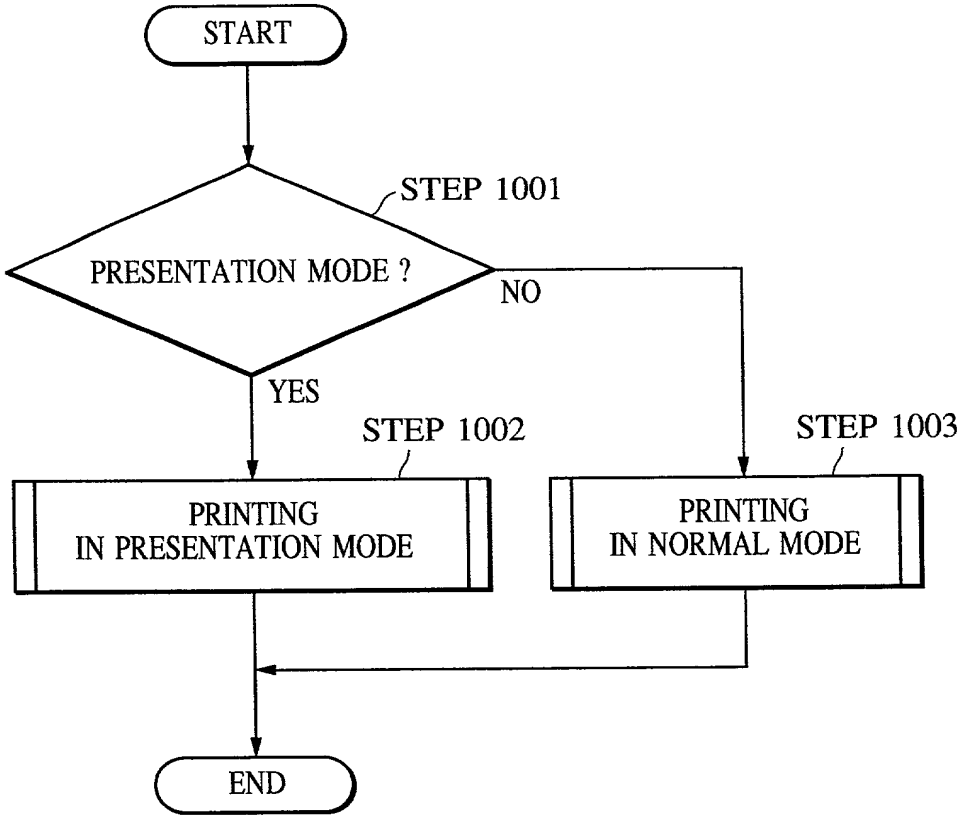

START
STEP 1001
PRESENTATION MODE ?
NO
YES
STEP 1002
STEP 1003
PRINTING
IN PRESENTATION MODE
PRINTING
IN NORMAL MODE
END

FIG. 11

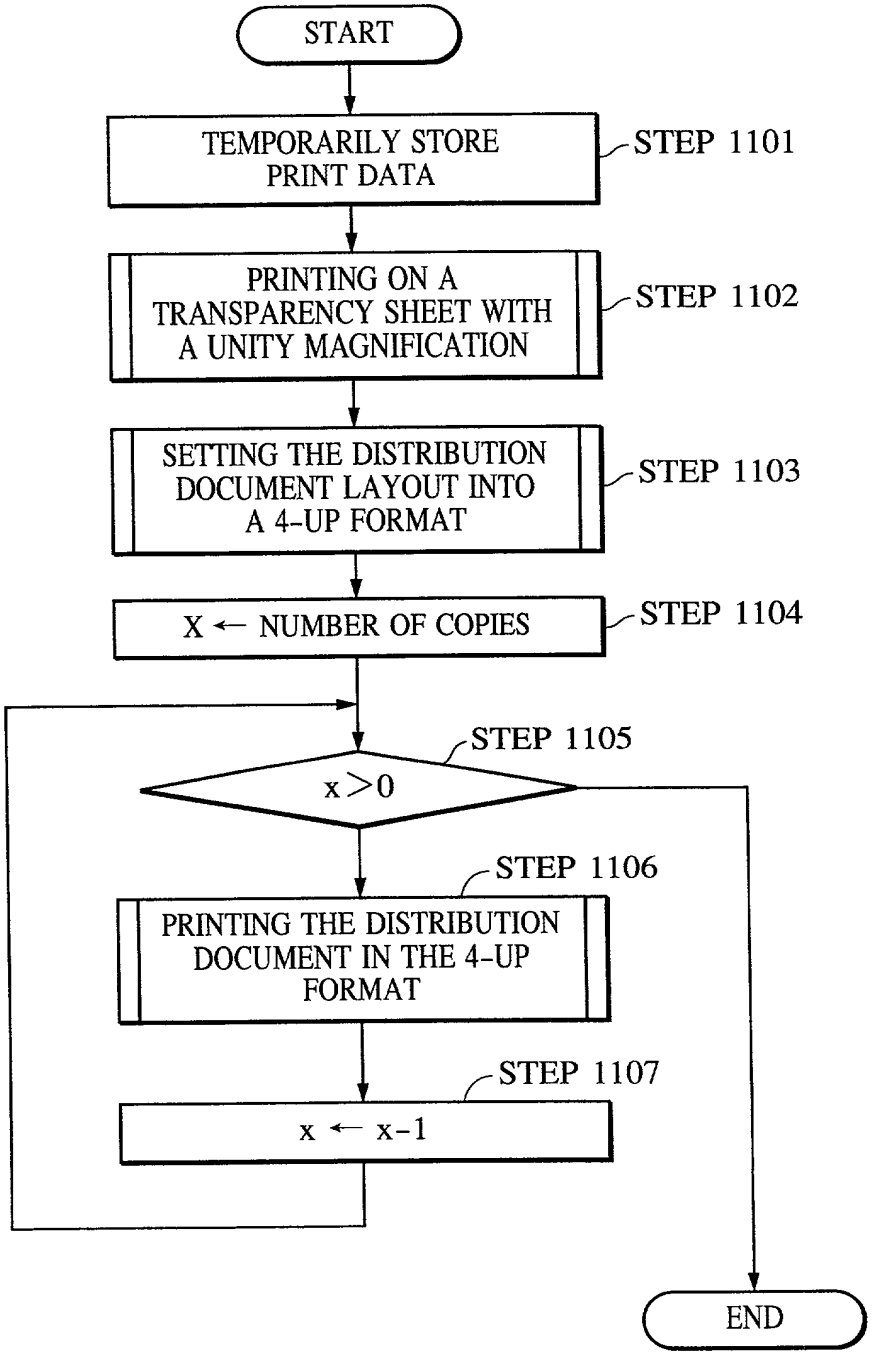

START
TEMPORARILY STORE PRINT DATA
STEP 1101
PRINTING ON A TRANSPARENCY SHEET WITH A UNITY MAGNIFICATION
STEP 1102
SETTING THE DISTRIBUTION DOCUMENT LAYOUT INTO A 4-UP FORMAT
STEP 1103
X ← NUMBER OF COPIES
STEP 1104
STEP 1105
x>0
STEP 1106
PRINTING THE DISTRIBUTION DOCUMENT IN THE 4-UP FORMAT
STEP 1107
x ← x-1
END

FIG. 12

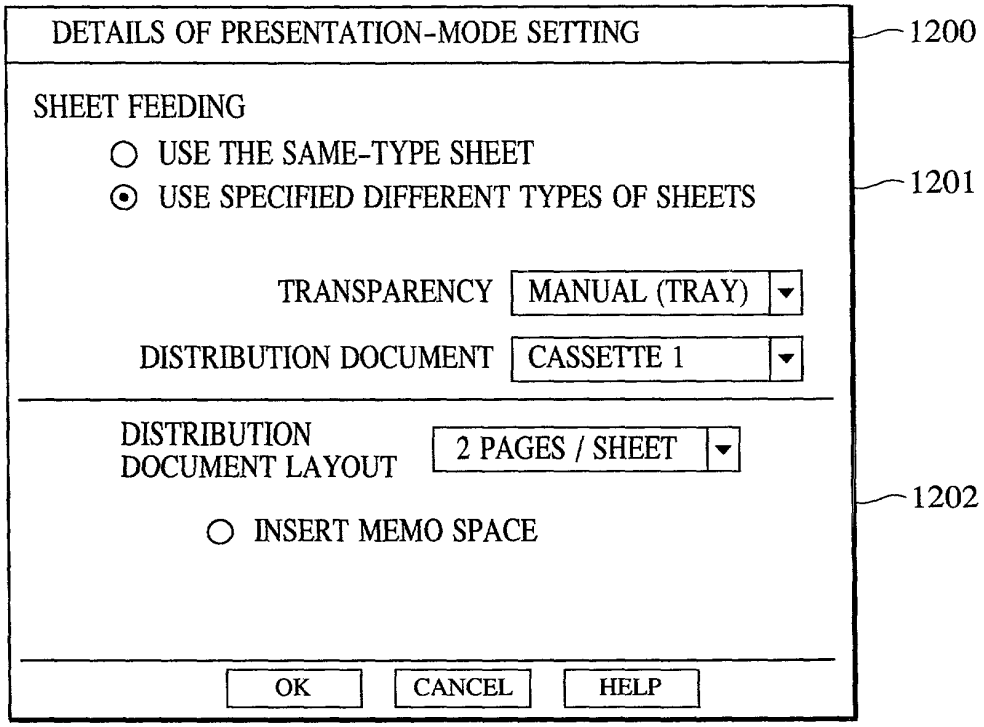

DETAILS OF PRESENTATION-MODE SETTING
1200
SHEET FEEDING
USE THE SAME-TYPE SHEET
USE SPECIFIED DIFFERENT TYPES OF SHEETS
1201
TRANSPARENCY
MANUAL (TRAY)
DISTRIBUTION DOCUMENT
CASSETTE 1
DISTRIBUTION DOCUMENT LAYOUT
2 PAGES / SHEET
1202
INSERT MEMO SPACE
OK
CANCEL
HELP

FIG. 13

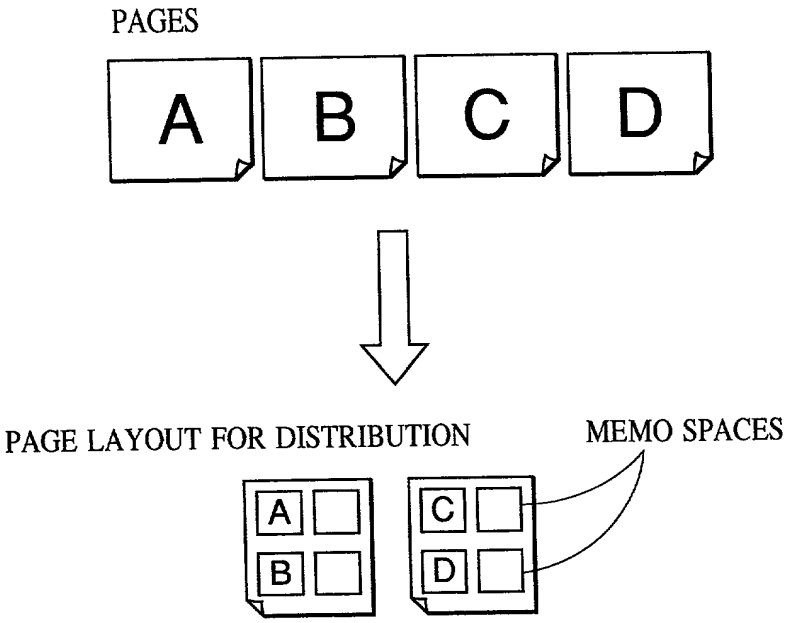


FIG. 14

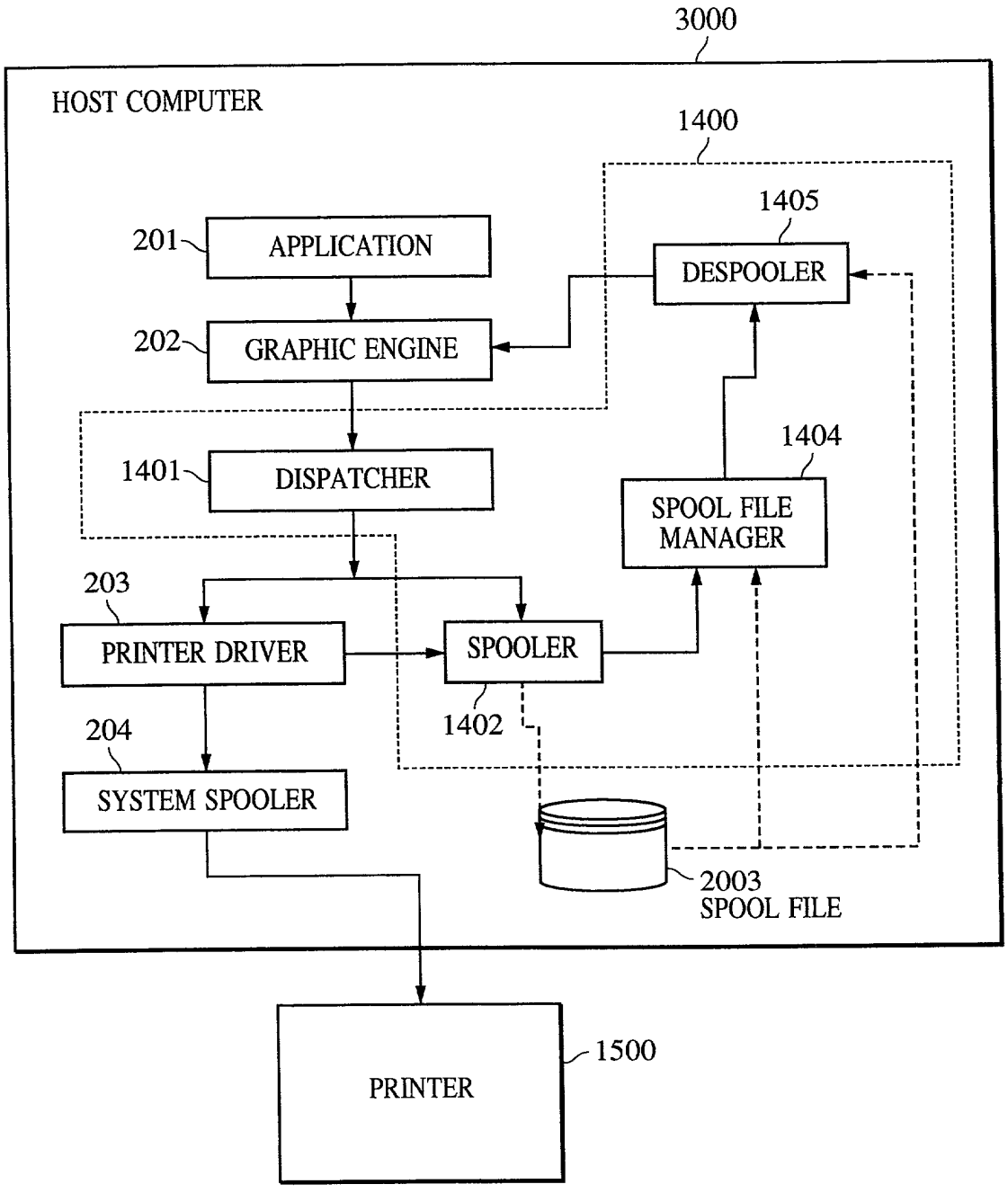

3000
HOST COMPUTER
1400
1405
201
APPLICATION
DESPOOLER
202
GRAPHIC ENGINE
1404
1401
DISPATCHER
SPOOL FILE MANAGER
203
PRINTER DRIVER
SPOOLER
1402
204
SYSTEM SPOOLER
2003
SPOOL FILE
1500
PRINTER

FIG. 15

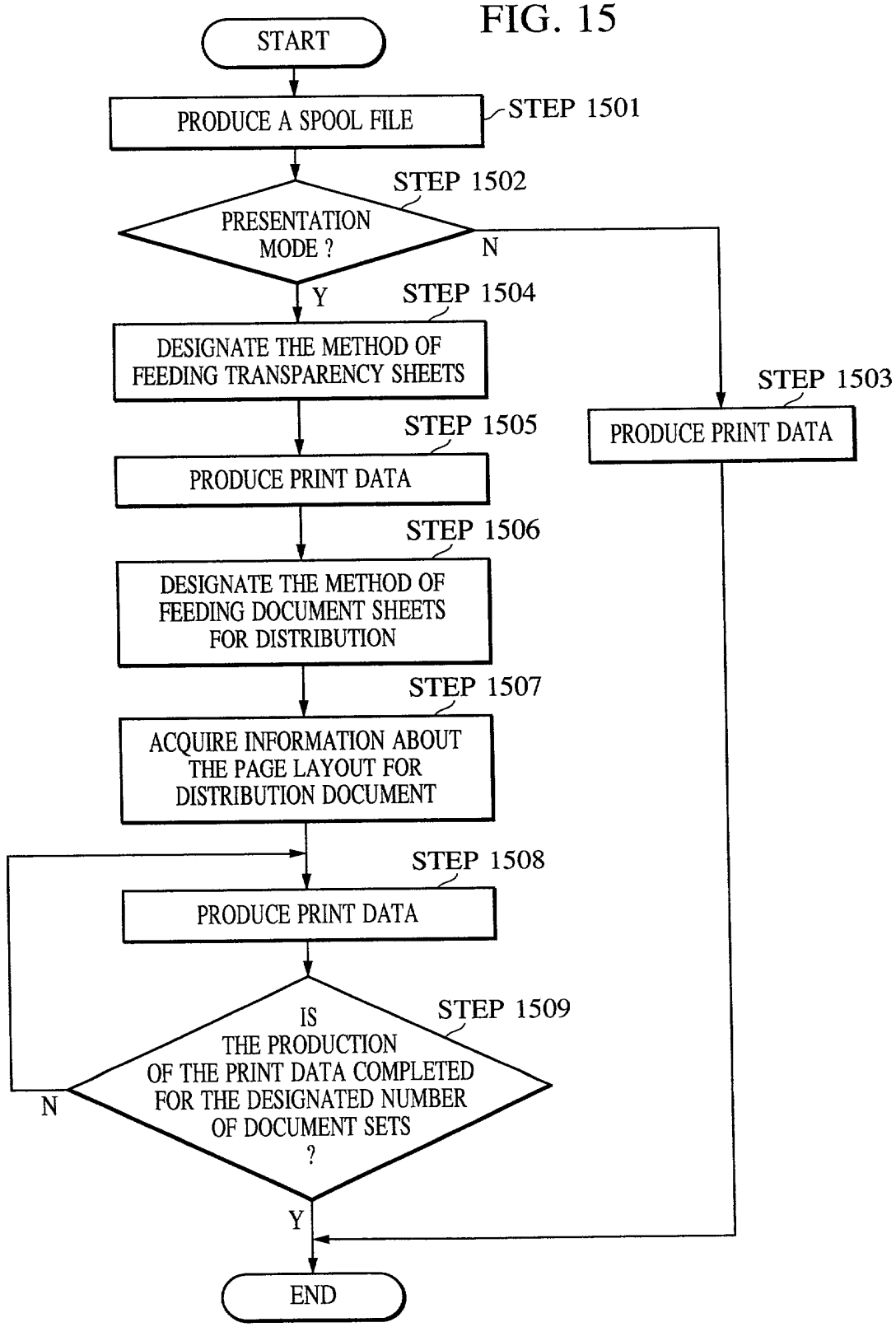

START
PRODUCE A SPOOL FILE
STEP 1501
STEP 1502
PRESENTATION MODE ?
N
Y
STEP 1504
DESIGNATE THE METHOD OF FEEDING TRANSPARENCY SHEETS
STEP 1503
PRODUCE PRINT DATA
STEP 1505
PRODUCE PRINT DATA
STEP 1506
DESIGNATE THE METHOD OF FEEDING DOCUMENT SHEETS FOR DISTRIBUTION
STEP 1507
ACQUIRE INFORMATION ABOUT THE PAGE LAYOUT FOR DISTRIBUTION DOCUMENT
STEP 1508
PRODUCE PRINT DATA
STEP 1509
IS THE PRODUCTION OF THE PRINT DATA COMPLETED FOR THE DESIGNATED NUMBER OF DOCUMENT SETS ?
N
Y
END

FIG. 16A

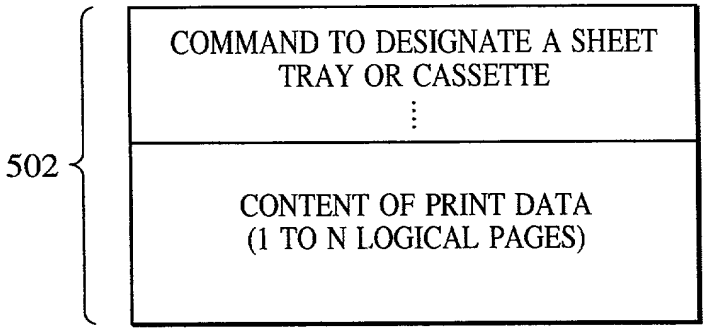


FIG. 16B

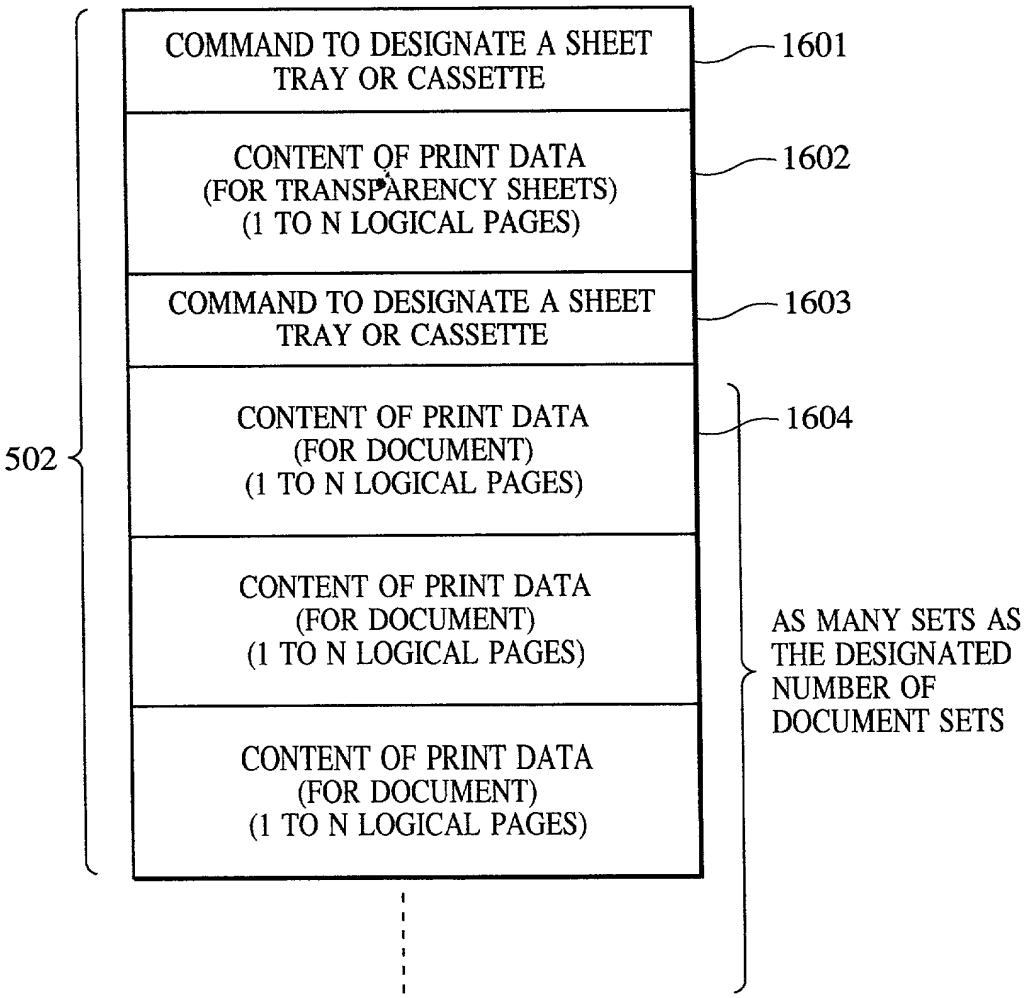


FIG. 17

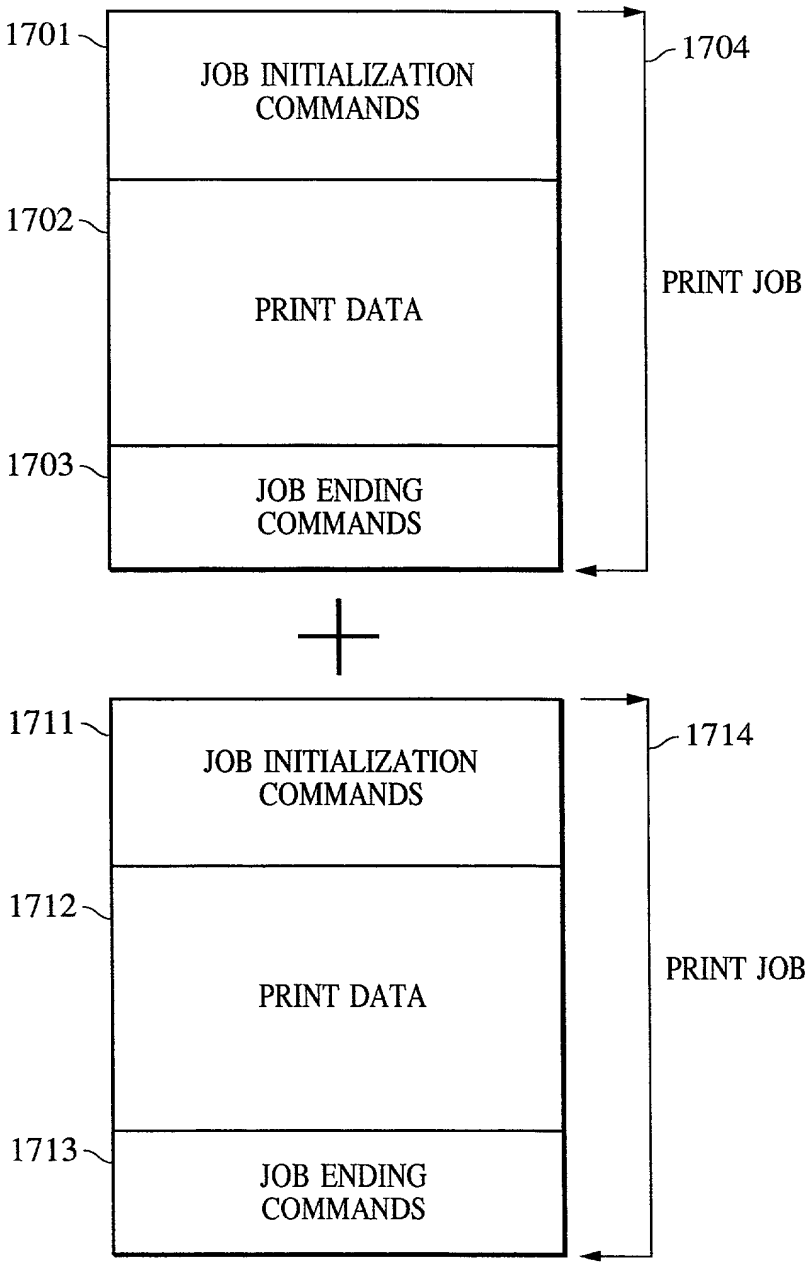

1701
JOB INITIALIZATION COMMANDS
1702
PRINT DATA
1703
JOB ENDING COMMANDS
1704
PRINT JOB
1711
JOB INITIALIZATION COMMANDS
1712
PRINT DATA
1713
JOB ENDING COMMANDS
1714
PRINT JOB

FIG. 18

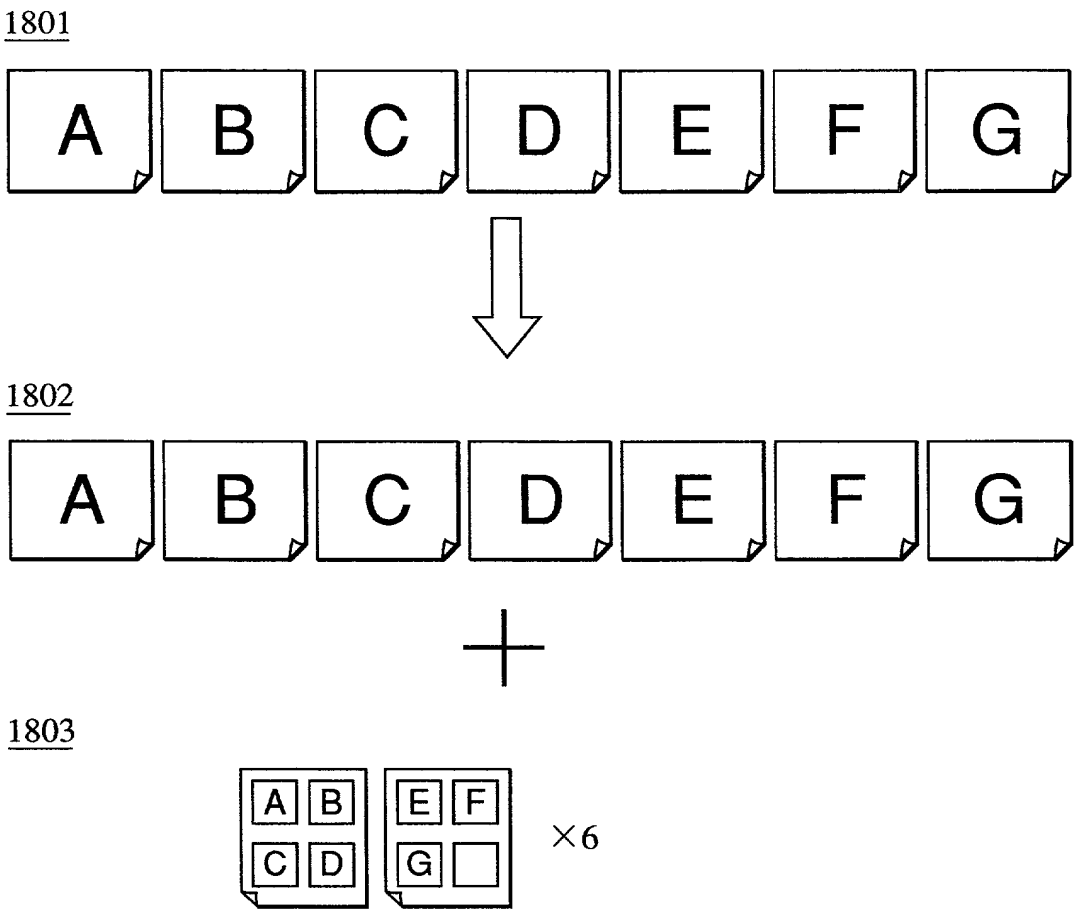
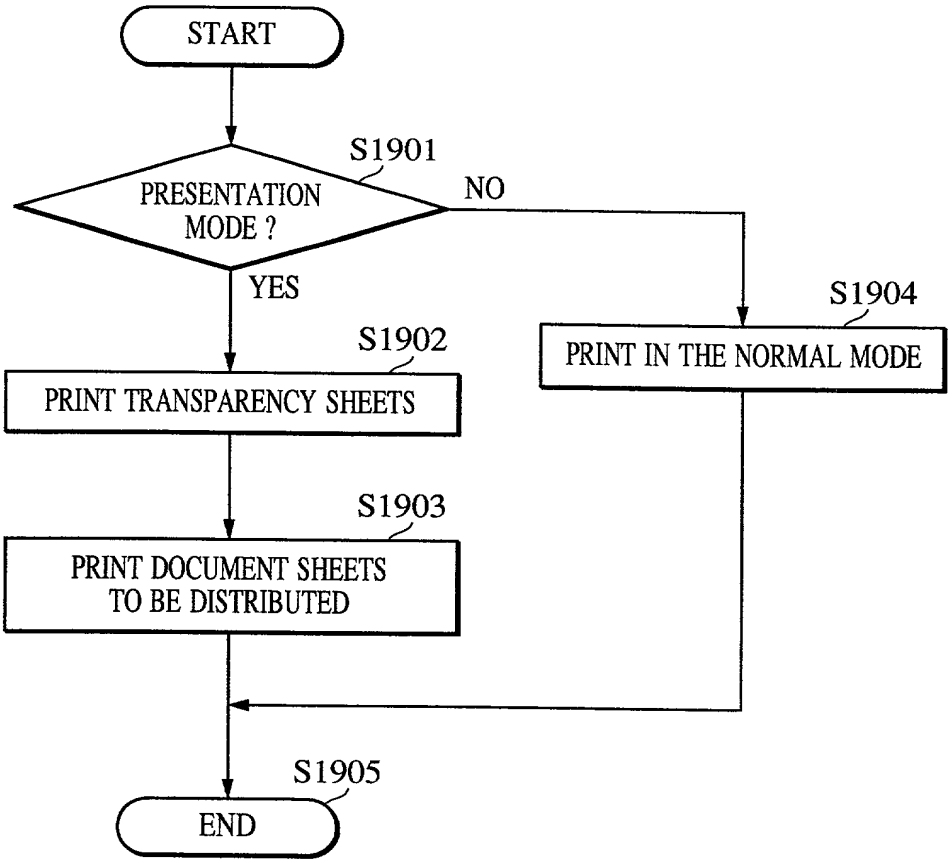


FIG. 19


START
S1901
PRESENTATION MODE ?
NO
YES
S1904
PRINT IN THE NORMAL MODE
S1902
PRINT TRANSPARENCY SHEETS
S1903
PRINT DOCUMENT SHEETS TO BE DISTRIBUTED
S1905
END